Sundry Print Repo

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Well Number: 1H

Well Name: CAPER 20/29 W0DM FED Well Location: T21S / R32E / SEC 17 /

NESW / 32.4759391 / -103.7011273 COM

Allottee or Tribe Name:

County or Parish/State: LEA /

Type of Well: CONVENTIONAL GAS

WELI

Lease Number: NMNM94095 Unit or CA Name: **Unit or CA Number:**

US Well Number: 3002552233 Operator: MEWBOURNE OIL

COMPANY

Notice of Intent

Sundry ID: 2785930

Type of Submission: Notice of Intent Type of Action: APD Change

Date Sundry Submitted: 04/19/2024 **Time Sundry Submitted: 07:56**

Date proposed operation will begin: 05/06/2024

Procedure Description: Mewbourne Oil Company requests to make the following changes to APD ID 10400085492: Change the name of the CAPER 20/29 W0DM FED COM #1H to the CAPER 20/29 FED COM #562H Change the bottom hole location from 100' FSL & 850' FWL (Sec 29, T21S, R32E) to 100' FSL & 750' FWL (Sec 29, T21S, R32E) Change the pool code from 98313 (WC-0125-G-09-S213232A; UPR WOLFCAMP) to 5695 (BILBREY BASIN; BONE SPRING) Change the target formation from Wolfcamp to Harkey Shale Permission to perform offline cementing and BOPE break testing as detailed in the attached documents Request permission to leave leave an open annulus below the 9 5/8" casing and bradenhead squeeze after frac operations as per R111Q. See attached C102, casing & cement assumptions, directional plot & plan, & additional info

NOI Attachments

Procedure Description

3_String_Open_Annulus_Variance_Request_20240506121904.pdf

Caper_20_29_Fed_Com__562H_CsgAssumptions_20240506121904.pdf

Caper_20_29_Fed_Com__562H_R_111Q_Variance_20240506121904.pdf

Caper_20_29_Fed_Com__562H_Drlg_Program_20240506121904.pdf

Caper_20_29_Fed_Com_562H_Offline_Cementing_Variance_20240419075633.pdf

Caper_20_29_Fed_Com_562H_Dir_Plan_20240419075628.pdf

CAPER_20_29_FED_COM__562H_20240419075628.pdf

Page 1 of 2

eived by OCD: 5/29/2024 2:43:10 PM. Well Name: CAPER 20/29 WODM FED

COM

Well Location: T21S / R32E / SEC 17 /

NESW / 32.4759391 / -103.7011273

County or Parish/State: LEA/ 2 of

Allottee or Tribe Name:

Well Number: 1H

Type of Well: CONVENTIONAL GAS

Unit or CA Name: Lease Number: NMNM94095

Unit or CA Number:

US Well Number: 3002552233 Operator: MEWBOURNE OIL

COMPANY

Caper_20_29_Fed_Com_562H_Dir_Plot_20240419075628.pdf

Caper_20_29_Fed_Com_562H_Break_Testing_Variance_20240419075628.pdf

Caper_20_29_Fed_Com___562H_AddInfo_20240419075627.pdf

Conditions of Approval

Additional

CAPER_20_29_FED_COM_562H_ENG_COA_20240528154452.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: CARTER CROOK Signed on: MAY 06, 2024 12:19 PM

Name: MEWBOURNE OIL COMPANY

Title: Engineer

Street Address: 4801 BUSINESS PARK BLVD City: HOBBS State: NM

Phone: (580) 754-3849

Email address: CCROOK@MEWBOURNE.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Phone: 5752342234

BLM POC Name: CHRISTOPHER WALLS

Disposition: Approved

Signature: Chris Walls

BLM POC Title: Petroleum Engineer

BLM POC Email Address: cwalls@blm.gov

Disposition Date: 05/29/2024

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPI	ROVED
OMB No. 100	04-0137
Expires: Octobe	er 31, 202

BUR	EAU OF LAND MANAGEMENT	5. Lease Serial No.	5. Lease Serial No.		
Do not use this t	IOTICES AND REPORTS ON Worm for proposals to drill or to Use Form 3160-3 (APD) for suc	6. If Indian, Allottee o	6. If Indian, Allottee or Tribe Name		
SUBMIT IN	TRIPLICATE - Other instructions on pag	7. If Unit of CA/Agree	ement, Name and/or No.		
1. Type of Well Oil Well Gas W	/ell Other	8. Well Name and No.			
2. Name of Operator			9. API Well No.		
3a. Address	3b. Phone No.	(include area code)	10. Field and Pool or I	Exploratory Area	
4. Location of Well (Footage, Sec., T., K	2.,M., or Survey Description)		11. Country or Parish,	State	
	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE OF NO	 OTICE, REPORT OR OTH	HER DATA	
TYPE OF SUBMISSION		TYPE OF A	ACTION		
Notice of Intent	Acidize Deep Alter Casing Hydr	aulic Fracturing R	roduction (Start/Resume)	Water Shut-Off Well Integrity	
Subsequent Report			Lecomplete Cemporarily Abandon	Other	
Final Abandonment Notice	Convert to Injection Plug	Back V	Vater Disposal		
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)				
		Title			
Signature		Date			
	THE SPACE FOR FED	ERAL OR STATE	OFICE USE		
Approved by				_	
	ned. Approval of this notice does not warran equitable title to those rights in the subject leduct operations thereon.		I	Date	
	3 U.S.C Section 1212, make it a crime for an ents or representations as to any matter with		willfully to make to any de	partment or agency of the United States	

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

Additional Information

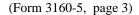
Additional Remarks

Request permission to leave leave an open annulus below the 9 5/8" casing and bradenhead squeeze after frac operations as per R111Q.

See attached C102, casing & cement assumptions, directional plot & plan, & additional info

Location of Well

0. SHL: NESW / 1645 FSL / 1330 FWL / TWSP: 21S / RANGE: 32E / SECTION: 17 / LAT: 32.4759391 / LONG: -103.7011273 (TVD: 0 feet, MD: 0 feet) PPP: NWNW / 100 FNL / 850 FWL / TWSP: 21S / RANGE: 32E / SECTION: 20 / LAT: 32.4711379 / LONG: -103.7026805 (TVD: 11657 feet, MD: 12067 feet) PPP: NWSW / 2642 FSL / 850 FWL / TWSP: 21S / RANGE: 32E / SECTION: 20 / LAT: 32.4641569 / LONG: -103.7026749 (TVD: 11691 feet, MD: 14607 feet) PPP: SWNW / 1321 FNL / 850 FWL / TWSP: 21S / RANGE: 32E / SECTION: 29 / LAT: 32.4532636 / LONG: -103.7026663 (TVD: 11743 feet, MD: 18571 feet) PPP: NWSW / 2642 FSL / 850 FWL / TWSP: 21S / RANGE: 32E / SECTION: 29 / LAT: 32.449635 / LONG: -103.7026634 (TVD: 11760 feet, MD: 19891 feet) PPP: SWSW / 1321 FSL / 850 FWL / TWSP: 21S / RANGE: 32E / SECTION: 29 / LAT: 32.4460042 / LONG: -103.7026605 (TVD: 11778 feet, MD: 21212 feet) BHL: SWSW / 100 FSL / 850 FWL / TWSP: 21S / RANGE: 32E / SECTION: 29 / LAT: 32.4426482 / LONG: -103.7026576 (TVD: 11794 feet, MD: 22433 feet)



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: MEWBOURNE OIL COMPANY

WELL NAME & NO.: | CAPER 20/29 FED COM 562H

APD ID: | 10400085492

SURFACE HOLE FOOTAGE: 1645'/S & 1330'/W BOTTOM HOLE FOOTAGE 100'/S & 750'/W

SURFACE LOCATION: | Section 17, T.21 S., R.32 E. NMP.

COUNTY: Lea County, New Mexico

COA

H_2S	• Yes	O No	
Potash	O None	O Secretary	◎ R-111-Q
Cave/Karst Potential	• Low	O Medium	O High
Cave/Karst Potential	O Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	Multibowl	O Both
Other	□4 String	☐ Capitan Reef	□WIPP
Other	☐ Fluid Filled	☐ Pilot Hole	Open Annulus
Other Variances	✓ Offline cementing	✓ Squeeze cement	☑ Break testing
Special Requirements	☐ Water Disposal	☑ COM	□ Unit

SEE ORIGINAL COA FOR ALL OTHER REQUIREMENTS.

A. CASING DESIGN

Primary Casing Program

- 1. The 13-3/8 inch surface casing shall be set at approximately 1,100 ft. (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> hours or 500 psi compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

- after bringing cement to surface or 500 psi compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 inch (HCL-80, 40#/ft.) intermediate casing shall be set at approximately 4,450 ft. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

<u>Option 1 (Single Stage):</u> Cement to surface. If cement does not circulate, see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Potash.

<u>Option 2 (Two-stage):</u> Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool: **Cement to surface.** If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Potash.

Note: Excess cement for the second stage is below CFO's recommendation of 25%. More cement might be needed.

Note: The operator shall follow all applicable requirements in the order NO. R-111-Q. The minimum additives/characteristics of cement slurry as well as centralizer program prescribed for the 1st intermediate casing shall be in accordance with the order NO. R-111-Q.

- **3.** Operator has proposed to set **7 in.** (HCP-110, 26#/ft.) production casing at approximately **10,333 ft.** (10,236 ft. TVD). The minimum required fill of cement behind the **7 in.** production casing is:
 - To cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage within 180 days after well completion in accordance with the **R-111-Q** guidelines.
 - c. First stage: Operator will cement production casing with intent to bring cement to top of Brushy Canyon formation. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst and Potash.
 - d. Second stage: Operator will perform bradenhead squeeze within 180 days after completion. Cement shall be tie-back at least 500 ft. into intermediate casing and below the Marker Bed 126. If cement does not circulate, the appropriate BLM office shall be notified.

Note: Operator has proposed to pump down 9-5/8" X 7" annulus within 180 days after well completion in accordance with R-111-Q guidelines. Operator must run a cement evaluation tool (fluid shot tool, Temperature log or CBL, etc.) to verify TOC after the second stage bradenhead. Submit the results to the BLM.

Casing test must be conducted in accordance with R-111-Q. Surface pressure applied will vary based on fluid in the casing and burst conditions.

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-393-3612 Lea County).

- **4.** The minimum required fill of cement behind the **4-1/2 in.** production liner is:
 - Cement should tie-back at least 100 feet into previous casing string. Operator shall provide method of verification.

Alternate Casing Program

- 1. The 13-3/8 inch surface casing shall be set at approximately 1,100 ft. (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.
 - e. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> hours or 500 psi compressive strength, whichever is greater. (This is to include the lead cement)
 - g. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 inch (HCL-80, 40#/ft.) intermediate casing shall be set at approximately 4,450 ft. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Option 1 (Single Stage): Cement to surface. If cement does not circulate, see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Potash.
 - <u>Option 2 (Two-stage):</u> Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- e. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- f. Second stage above DV tool: **Cement to surface.** If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Potash.

Note: Excess cement for the second stage is below CFO's recommendation of 25%. More cement might be needed.

Note: The operator shall follow all applicable requirements in the order NO. R-111-Q. The minimum additives/characteristics of cement slurry as well as centralizer program prescribed for the 1st intermediate casing shall be in accordance with the order NO. R-111-Q.

- **3.** Operator has proposed to set **7 in.** (HCP-110, 26#/ft.) production casing at approximately **11,233 ft.** (10,809 ft. TVD). The minimum required fill of cement behind the **7 in.** production casing is:
 - To cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage within 180 days after well completion in accordance with the **R-111-Q** guidelines.
 - g. First stage: Operator will cement production casing with intent to bring cement to top of Brushy Canyon formation. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst and Potash.
 - h. Second stage: Operator will perform bradenhead squeeze within 180 days after completion. Cement shall be tie-back at least 500 ft. into intermediate casing and below the Marker Bed 126. If cement does not circulate, the appropriate BLM office shall be notified.

Note: Operator has proposed to pump down 9-5/8" X 7" annulus within 180 days after well completion in accordance with R-111-Q guidelines. Operator must run a cement evaluation tool (fluid shot tool, Temperature log or CBL, etc.) to verify TOC after the second stage bradenhead. Submit the results to the BLM.

Casing test must be conducted in accordance with R-111-Q. Surface pressure applied will vary based on fluid in the casing and burst conditions.

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-393-3612 Lea County).

- **4.** The minimum required fill of cement behind the **4-1/2 in.** production liner is:
 - Cement should tie-back at least 100 feet into previous casing string. Operator shall provide method of verification.

B. PRESSURE CONTROL

- 1. Variance approved to use **flex line** from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. Before drilling out surface casing shoe, BOP/BOPE and annular preventer must be pressure tested in accordance with title 43 CFR 3172 and API Standard 53.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

BOPE Break Testing Variance (Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **title 43 CFR 3172**.

• If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Offline cementing variance is approved for surface and intermediate casings only. Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County

 EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822

- ☐ Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **title 43 CFR 3172**
 - as soon as 2nd Rig is rigged up on well.

- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in the **title 43 CFR 3172** and **API STD 53 Sec. 5.3**.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in the title 43 CFR 3172.6(b)(9) must be followed.

- e. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000-psi chart for a 5M BOP/BOPE and on a 15000-psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two-hour clock.
 - e. The results of the test shall be reported to the appropriate BLM office.
 - f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - g. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test

plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crewintensive operations.

SA 05/28/2024

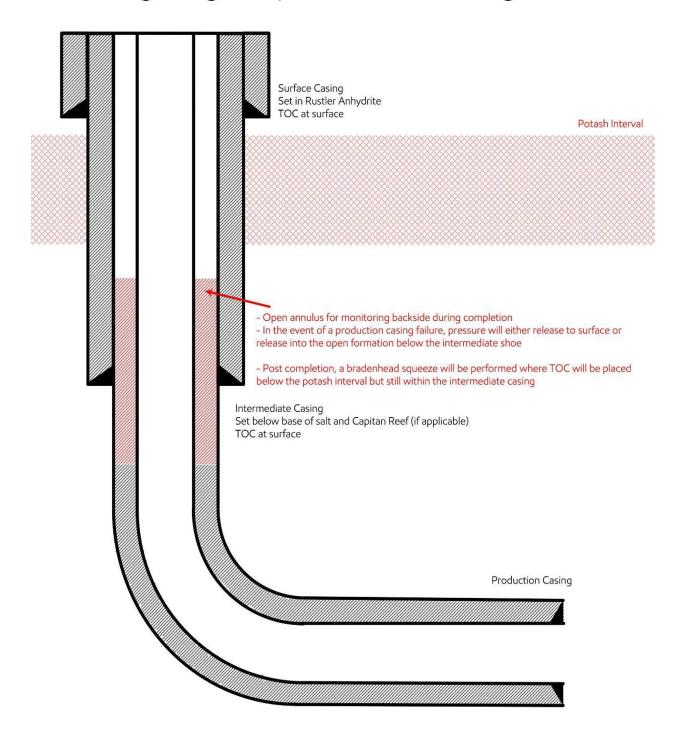
Mewbourne Oil Company Variance Request

Mewbourne Oil Company request a variance for the production string per R-111Q guidelines to be implemented as follows:

Production String

- a) The Production string shall consist new oil field casing in good condition that meets API specifications, rated for the loads expected over the lifecycle of the well.
- b) For wells within the KPLA where a 2nd intermediate string will not be utilized resulting in a 3 String Design (Surface, Salt or Salt/Capitan Reef, Production), the following safeguard shall apply to safely divert flow of wellbore fluids away from the Salt Interval in the event of a catastrophic production casing failure. The Surface Equipment utilized during stimulation operations should be designed to relieve pressure from the production x intermediate casing annulus below the burst threshold of the casing string components.
 - *i.* A monitored open annulus will be incorporated during completion by leaving the 1st Intermediate Casing x Production Casing annulus un-cemented and monitored inside the 1st Intermediate String. Reference wellbore diagram.
 - i. The top of cement in the Production Casing x 1st Intermediate Casing Annulus shall stand uncemented at least 500' below the 1st Intermediate Casing Shoe. Zero percent excess shall be pumped on the Production Cementing Slurry to ensure no tie-back into the 1st Intermediate Casing Shoe.
 - ii. After Stimulation Operations have been concluded and no longer than 180 days after the well is brought online, the operator will be responsible for Bradenheading cement to ensure at least a 500' tie back has been established inside the 1st Intermediate (Salt String / Capitan String) but not higher than Marker Bed No. 126 (base of the Potash mining interval).
 - iii. The top of cement may be estimated through pumped displacement volumes or with the use of a fluid shot tool prior to filling backside with fluid.

3-String Design – Open Production Casing Annulus



SHL: 1645' FSL 1330' FWL (Sec 17) BHL: 100' FSL 750' FWL (Sec 29)

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	1100'	1100'	13.375" 48# H40 STC	1.60	3.60	6.10	10.25
Int	12.25"	0'	0'	4450'	4450'	9.625" 40# HCL80 LTC	1.83	2.48	4.70	5.15
Production	8.75"	0'	0'	10333'	10236'	7" 26# HCP110 LTC	1.54	1.97	2.58	3.09
Liner	6.125"	10133'	10091'	21599'	10952'	4.5" 13.5# P110 LTC	1.63	1.89	2.18	2.73

Cement Program

Cement Program									
Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description	
13,375 in	LEAD	600	12.5	2.12	0' - 910'	1280	100%	Class C: Salt, Gel, Extender, LCM	
15.575 III	TAIL	200	14.8	1.34	910' - 1100'	268	100%	Class C: Retarder	
1st Stg 9.625 in	LEAD	330	12.5	2.12	2000' - 3772'	700	25%	Class C: Salt, Gel, Extender, LCM	
18t Stg 9.025 III	TAIL	200	14.8	1.34	3772' - 4450'	268	23%	Class C: Retarder	
	9 5/8" DV Tool @ 2000'								
2nd Stg 9.625 in	LEAD	300	12.5	2.12	0' - 1654'	640	25%	Class C: Salt, Gel, Extender, LCM	
2110 Stg 9.025 III	TAIL	100	14.8	1.34	1654' - 2000'	134	25%	Class C: Retarder	
7 in	LEAD	160	12.5	2.12	4950' - 7204'	340	0%	Class C: Salt, Gel, Extender, LCM, Defoamer	
/ III	TAIL	400	15.6	1.18	7204' - 10333'	472	U70	Class H: Retarder, Fluid Loss, Defoamer	
4.5 in	LEAD	730	13.5	1.85	10133' - 21599'	1360	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti- settling Agent	

Design A - Mud Program

Depth	Mud Wt	Mud Type
0' - 1100'	8.4	Fresh Water
1100' - 4450'	10	Brine
4450' - 10333'	9.5	Cut-Brine
10333' - 21599'	11.5	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	1020'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4563'	Oil/Natural Gas
Salt Top	1152'	None	Bell Canyon	4575'	Oil/Natural Gas
Salt Base	4225'	None	Cherry Canyon		
Yates			Manzanita Marker	5698'	Oil/Natural Gas
Seven Rivers			Basal Brushy Canyon	6700'	Oil/Natural Gas
Queen			Bone Spring	8440'	Oil/Natural Gas
Capitan			1st Bone Spring	9490'	Oil/Natural Gas
Grayburg			2nd Bone Spring	10140'	Oil/Natural Gas
San Andres			3rd Bone Spring	11110'	Oil/Natural Gas
Glorieta			Wolfcamp	11515'	Oil/Natural Gas

All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172. Must have table for contingency casing.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	Y
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

BHL: 1045 FSL 1330 FWL (Sec 17)
BHL: 100' FSL 750' FWL (Sec 29)

		Casing Prog	ram Design B			BLM Minimum Safety	1.125	1.0	1.6 Dry	1.6 Dry
						Factors			1.8 Wet	1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body
String	Hole Size	Top MD	TOP I V D	But MD	BOU I VD	Csg. Size	SF Conapse	r Conapse Sr Burst	SF Jt Telision	Tension
Surface	17.5"	0'	0'	1100'	1100'	13.375" 48# H40 STC	1.60	3.60	6.10	10.25
Int 2	12.25"	0'	0'	4450'	4450'	9.625" 40# HCL80 LTC	1.83	2.48	4.70	5.15
Liner	6.125"	10333'	10236'	21599'	10952'	4.5" 13.5# P110 LTC	1.63	1.89	2.22	2.77

Design B - Cement Program

Design B - Centent i Togram								
Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description
13,375 in	LEAD	600	12.5	2.12	0' - 910'	1280	100%	Class C: Salt, Gel, Extender, LCM
13.373 III	TAIL	200	14.8	1.34	910' - 1100'	268	100%	Class C: Retarder
1st Stg 9.625 in	LEAD	330	12.5	2.12	2000' - 3772'	700	25%	Class C: Salt, Gel, Extender, LCM
1st 5tg 9.025 iii	TAIL	200	14.8	1.34	3772' - 4450'	268	2370	Class C: Retarder
					9 5/8'' Г	OV Tool @ 2000'		
2nd Stg 9.625 in	LEAD	300	12.5	2.12	0' - 1654'	640	25%	Class C: Salt, Gel, Extender, LCM
211d Stg 9.023 III	TAIL	100	14.8	1.34	1654' - 2000'	134	2370	Class C: Retarder
7 in	LEAD	230	12.5	2.12	4950' - 8150'	490	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
/ III	TAIL	400	15.6	1.18	8150' - 11233'	472		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	720	13.5	1.85	10333' - 21599'	1340	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Design B - Mud Program

Depth	Mud Wt	Mud Type
0' - 1100'	8.4	Fresh Water
1100' - 4450'	10	Brine
4450' - 11233'	9.5	Cut-Brine
11233' - 21599'	11.5	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	1020'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4563'	Oil/Natural Gas
Salt Top	1152'	None	Bell Canyon	4575'	Oil/Natural Gas
Salt Base	4225'	None	Cherry Canyon		
Yates			Manzanita Marker	5698'	Oil/Natural Gas
Seven Rivers			Basal Brushy Canyon	6700'	Oil/Natural Gas
Queen			Bone Spring	8440'	Oil/Natural Gas
Capitan			1st Bone Spring	9490'	Oil/Natural Gas
Grayburg			2nd Bone Spring	10140'	Oil/Natural Gas
San Andres			3rd Bone Spring	11110'	Oil/Natural Gas
Glorieta			Wolfcamp	11515'	Oil/Natural Gas

All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172. Must have table for contingency casing.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	Y
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

BHL: 1645' FSL 1330' FWL (Sec 17) BHL: 100' FSL 750' FWL (Sec 29)

		Casing Prog	ram Design A			BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	1100'	1100'	13.375" 48# H40 STC	1.60	3.60	6.10	10.25
Int	12.25"	0'	0'	4450'	4450'	9.625" 40# HCL80 LTC	1.83	2.48	4.70	5.15
Production	8.75"	0'	0'	10333'	10236'	7" 26# HCP110 LTC	1.54	1.97	2.58	3.09
Liner	6.125"	10133'	10091'	21599'	10952'	4.5" 13.5# P110 LTC	1.63	1.89	2.18	2.73

Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description			
13.375 in	LEAD	600	12.5	2.12	0' - 910'	1280	100%	Class C: Salt, Gel, Extender, LCM			
13.373 III	TAIL	200	14.8	1.34	910' - 1100'	268	100%	Class C: Retarder			
1st Stg 9.625 in	LEAD	330	12.5	2.12	2000' - 3772'	700	25%	Class C: Salt, Gel, Extender, LCM			
18t Stg 5.025 III	TAIL	200	14.8	1.34	3772' - 4450'	268	2370	Class C: Retarder			
9 5/8" DV Tool @ 2000'											
2nd Stg 9.625 in	LEAD	300	12.5	2.12	0' - 1654'	640	25%	Class C: Salt, Gel, Extender, LCM			
2110 Stg 9.025 III	TAIL	100	14.8	1.34	1654' - 2000'	0	2370	Class C: Retarder			
7 in	LEAD	160	12.5	2.12	4950' - 7204'	340	0%	Class C: Salt, Gel, Extender, LCM, Defoamer			
/ III	TAIL	400	15.6	1.18	7204' - 10333'	472	U%	Class H: Retarder, Fluid Loss, Defoamer			
					7" TOC @ 495	60', BHS TOC @ 3950'					
Braden Head Sqz	LEAD	140	14.8	1.34	3950' - 4950'	190	25%	Class C			
4.5 in	LEAD	730	13.5	1.85	10133' - 21599'	1360	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti- settling Agent			

		Casing Prog	ram Design B			BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
String	String Hole Size Top MD Top TVD Bot MD Bot TVD				Csg. Size	SF Collapse	SF Burst	1.8 Wet SF Jt Tension	1.8 Wet SF Body Tension	
Surface	17.5"	0'	0'	1100'	1100'	13.375" 48# H40 STC	1.60	3.60	6.10	10.25
Int 2	12.25"	0'	0'	4450'	4450'	9.625" 40# HCL80 LTC	1.83	2.48	4.70	5.15
Liner	6.125"	10333'	10236'	21599'	10952'	4.5" 13.5# P110 LTC	1.63	1.89	2.22	2.77

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description			
13,375 in	LEAD	600	12.5	2.12	0' - 910'	1280	100%	Class C: Salt, Gel, Extender, LCM			
13.373 III	TAIL	200	14.8	1.34	910' - 1100'	268	10070	Class C: Retarder			
1st Stg 9.625 in	LEAD	330	12.5	2.12	2000' - 3772'	700	25%	Class C: Salt, Gel, Extender, LCM			
1st Stg 9.025 III	TAIL	200	14.8	1.34	3772' - 4450'	268	2370	Class C: Retarder			
9 5/8" DV Tool @ 2000'											
2nd Stg 9.625 in	LEAD	300	12.5	2.12	0' - 1654'	640	25%	Class C: Salt, Gel, Extender, LCM			
211d Stg 9.025 III	TAIL	100	14.8	1.34	1654' - 2000'	0	2370	Class C: Retarder			
7 in	LEAD	230	12.5	2.12	4950' - 8150'	490	0%	Class C: Salt, Gel, Extender, LCM, Defoamer			
/ III	TAIL	400	15.6	1.18	8150' - 11233'	472	070	Class H: Retarder, Fluid Loss, Defoamer			
					7" TOC @ 495	60', BHS TOC @ 3950'					
Braden Head Sqz	LEAD	140	14.8	1.34	3950' - 4950'	190	25% Class C				
4.5 in	LEAD	720	13.5	1.85	10333' - 21599'	1340	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-			

SHL: 1645' FSL 1330' FWL (Sec 17) BHL: 100' FSL 750' FWL (Sec 29)

Well Location GL: '

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 1645' FSL & 1330' FWL (Sec 17)	NMNM 094095	NWSW	17	21S	32E	Lea	32.4759391	103.7011273	0'	0'
KOP	KOP: 473' FSL & 750' FWL (Sec 17)	NMNM 094095	SWSW	17	21S	32E	Lea	32.4727115	103.7030056	10,236'	10,333'
FTP	FTP: 100' FNL & 750' FWL (Sec 20)	NMNM 137457	NWNW	20	21S	32E	Lea	32.4711369	103.7030046	10,809'	11,233'
PPP2	PPP2: 2641' FSL & 750' FWL (Sec 20)	NMNM 014331	NWSW	20	21S	32E	Lea	32.4641525	103.7029990	10,844'	13,774'
PPP3	PPP3: 1321' FNL & 750' FWL (Sec 29)	NMNM 031955	SWNW	29	21S	32E	Lea	32.4532631	103.7029902	10,899'	17,736'
PPP4	PPP4: 2642' FSL & 749' FWL (Sec 29)	NMNM 031375	NWSW	29	21S	32E	Lea	32.4496325	103.7029873	10,917'	19,057'
PPP5	PPP5: 1321' FSL & 748' FWL (Sec 29)	NMNM 031955	SWSW	29	21S	32E	Lea	32.4460023	103.7029844	10,935'	20,378'
BHL	BHL: 100' FSL & 750' FWL (Sec 29)	NMNM 031955	SWSW	29	21S	32E	Lea	32.4426469	103.7029817	10,952'	21,599'

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler	1020'	Dolomite/Anhydrite	Usable Water	Yeso			
Castile				Delaware (Lamar)	4563'	Limestone/Dolomite	Oil/Natural Gas
Salt Top	1152'	Salt	None	Bell Canyon	4575'	Sandstone	Oil/Natural Gas
Salt Base	4225'	Salt	None	Cherry Canyon			
Yates				Manzanita Marker	5698'	Limestone	Oil/Natural Gas
Seven Rivers				Basal Brushy Canyon	6700'	Sandstone	Oil/Natural Gas
Queen				Bone Spring	8440'	Limestone	Oil/Natural Gas
Capitan				1st Bone Spring	9490'	Sandstone	Oil/Natural Gas
Grayburg				2nd Bone Spring	10140'	Sandstone	Oil/Natural Gas
San Andres				3rd Bone Spring	11110'	Sandstone	Oil/Natural Gas
Glorietta				Wolfcamp	11515'	Shale/Sandstone/Limestone	Oil/Natural Gas

		Casing Progr	am Design A			BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
		Cusing 110gi	am Design A		BENT Minimum Safety Factors	1.125	1.0	1.8 Wet	1.8 Wet	
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt	SF Body
oung	Hole Size	Top MD	TOP I VD	DOT MID	DOL I VD	Csg. Size	SF Conapse	or burst	Tension	Tension
Surface	17.5"	0'	0'	1100'	1100'	13.375" 48# H40 STC	1.60	3.60	6.10	10.25
Int	12.25"	0'	0'	4450'	4450'	9.625" 40# HCL80 LTC	1.83	2.48	4.70	5.15
Production	8.75"	0'	0'	10333'	10236'	7" 26# HCP110 LTC	1.54	1.97	2.58	3.09
Liner	6.125"	10133'	10091'	21599'	10952'	4.5" 13.5# P110 LTC	1.63	1.89	2.18	2.73

$All \ casing \ strings \ will \ be \ tested \ in \ accordance \ with \ 43 \ CFR \ Part \ 3172. \ Must \ have \ table \ for \ contingency \ casing.$

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	Y
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Caper 20/29 Fed Com 562H Sec 17, T21S, R32E

SHL: 1645' FSL 1330' FWL (Sec 17) BHL: 100' FSL 750' FWL (Sec 29)

Design A - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft ³ /sack	TOC/BOC	Volume, ft ³	% Excess	Slurry Description
13.375 in	LEAD	600	12.5	2.12	0' - 910'	1280	100%	Class C: Salt, Gel, Extender, LCM
13.375 III	TAIL	200	14.8	1.34	910' - 1100'	268	100%	Class C: Retarder
1st Stg 9.625 in	LEAD	330	12.5	2.12	2000' - 3772'	700	25%	Class C: Salt, Gel, Extender, LCM
18t Stg 9.025 iii	TAIL	200	14.8	1.34	3772' - 4450'	268	25%	Class C: Retarder
			•		9.5	7/8" DV Tool @ 2000"		
2nd Stg 9.625 in	LEAD	300	12.5	2.12	0' - 1654'	640	25%	Class C: Salt, Gel, Extender, LCM
2nd Stg 9.025 in	TAIL	100	14.8	1.34	1654' - 2000'	134	25%	Class C: Retarder
7 in	LEAD	160	12.5	2.12	4950' - 7204'	340	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
/ III	TAIL	400	15.6	1.18	7204' - 10333'	472	0%	Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	730	13.5	1.85	10133' - 21599'	1360	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Pressure Control Equipment

BOP installed and tested before drilling hole, in:	Size, in	System Rated WP	Туре		Tested to:	Rating Depth
		5M	Annular	X	2500#	
		0.4	Blind Ram	X		
12.25	13.375		Pipe Ram	X	5000#	21,599'
		5M	Double Ram		5000#	
			Other*			ĺ

^{*}Specify if additional ram is utilized.

Equipment: Annular, Pipe Rams, Blind Rams, Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Variance Request: A variance is requested for the use of a variable choke line from the BOP to the choke manifold. See attached for hydrostatic test chart. Anchors are not required by manufacturer. Variance is requested to use a multi bowl wellhead. Variance is requested to perform break testing according to attached procedure. If a breaktesting variance is approved & incorporated, API Standard 53 will be incorporated and testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater, will be performed.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

	Y	Formation integrity test will be performed per 43 CFR Part 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3172.
Ī	N	Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack.

Mud Program

Depth (MD)	Mud Wt., lb/gal	Mud Type			
0' - 1100'	8.4	Fresh Water			
1100' - 4450'	10	Brine			
4450' - 10333'	9.5	Cut-Brine			
10333' 21500'	11.5	ORM			

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring

Mewbourne Oil Company, Caper 20/29 Fed Com 562H Sec 17, T21S, R32E

SHL: 1645' FSL 1330' FWL (Sec 17) BHL: 100' FSL 750' FWL (Sec 29)

Logging and Testing Procedures

Ī	Logging	, Coring and Testing.			
N Will run GR/CNL from KOP (10333') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and the BLM.					
Y No logs are planned based on well control or offset log information. Offset Well:					
Ī	N	Coring? If yes, explain:			

Open & Cased Hole Logs Run In the Well

	Caliper		Cement Bond Log		CNL/FDC
	Compensated Densilog	V	Compensated Neutron Log		Computer Generated Log
	☐ Dip Meter Log ☐ Directional Survey				Dual Induction/Microresistivity
	Dual Lateral Log/Microspherically Focused		Electric Log		Formation Density Compensated Log
<	Gamma Ray Log	2	Measurement While Drilling		Mud Log/Geological Lithology Log
	Other		Porosity-Resistivity Log		Sidewall Neutron Log
	Sonic Log		Spontaneous Potential Log		Temperature Log

Drilling Conditions

Condition	Specify what type and where?			
BH Pressure at deepest TVD	6549 psi			
BH Temperature	140			
Abnormal Temp, Pressure, or Geologic Hazards	No			

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present
X	H2S Plan attached

SHL: 1645' FSL 1330' FWL (Sec 17) BHL: 100' FSL 750' FWL (Sec 29)

Other facets of operation

Mewbourne Oil Company also requests approval to implement Design B as described below. BLM will be notified of elected design.

Offline Cementing Variance: Variance is request to perform offline cementing according to the attached procedure.

		BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry				
		Casing Progr	um Design D		DEM Minimum Safety Factors	1.123	1.0	1.8 Wet	1.8 Wet	
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt	SF Body
Surface	17.5"	0'	0'	1100'	1100'	13.375" 48# H40 STC	1.60	3.60	6.10	10.25
Int 2	12.25"	0'	0'	4450'	4450'	9.625" 40# HCL80 LTC	1.83	2.48	4.70	5.15
Production	8.75"	0'	0'	11233'	10809'	7" 26# HCP110 LTC	1.46	1.86	2.37	2.84
Liner	6.125"	10333'	10236'	21599'	10952'	4.5" 13.5# P110 LTC	1.63	1.89	2.22	2.77

All casing strings will be tested in accordance with 43 CFR Part 3172. Must have table for contingency casing.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500° into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	Y
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Design B - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft ³ /sack	TOC/BOC	Volume, ft ³	% Excess	Slurry Description			
13.375 in	LEAD	600	12.5	2.12	0' - 910'	1280	100%	Class C: Salt, Gel, Extender, LCM			
13.375 III	TAIL	200	14.8	1.34	910' - 1100'	268	100%	Class C: Retarder			
1st Stg 9.625 in	LEAD	330	12.5	2.12	2000' - 3772'	700	25%	Class C: Salt, Gel, Extender, LCM			
18t Stg 9.025 III	TAIL	200	14.8	1.34	3772' - 4450'	268	2370	Class C: Retarder			
	9 5/8" DV Tool @ 2000'										
2nd Stg 9.625 in	LEAD	300	12.5	2.12	0' - 1654'	640	25%	Class C: Salt, Gel, Extender, LCM			
2110 Stg 9.025 III	TAIL	100	14.8	1.34	1654' - 2000'	134	2370	Class C: Retarder			
7 in	LEAD	230	12.5	2.12	4950' - 8150'	490	0%	Class C: Salt, Gel, Extender, LCM, Defoamer			
/ III	TAIL	400	15.6	1.18	8150' - 11233'	472	076	Class H: Retarder, Fluid Loss, Defoamer			
4.5 in	LEAD	720	13.5	1.85	10333' - 21599'	1340	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-			



Mewbourne Oil Co.

Surface & Intermediate Offline Cementing Variance

Mewbourne Oil Company requests a variance to perform offline cementing for surface and intermediate casing strings with the following conditions:

- Offline cementing will not be performed on production casing.
- Offline cementing will not be performed on a hole section with MASP > 5000 psi.
- Offline cementing will not be performed concurrently with offset drilling.

Surface Casing Order of Operations:

- 1. Run 13 3/8" surface casing as per normal operations (TPGS and float collar).
- 2. Perform negative pressure test to confirm integrity of float equipment while running casing.
- 3. Confirm well is static.
- 4. Make up 13 %" wellhead or wellhead landing ring assembly and land on 20" conductor.
- 5. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
- 6. Confirm well is static.
- 7. Back out landing joint and pull to rig floor. Lay down landing joint.
- 8. Walk rig to next well on pad with cement crew standing by to rig up.
- 9. Make up offline cement tool with forklift per wellhead manufacturer (Fig. 1 & 2).
- 10. Make up cement head on top of offline cement tool with forklift.
- 11. Commence cement operations.
- 12. If cement circulates, confirm well is static and proceed to step 16.
- 13. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
- 14. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
- 15. Confirm well is static.
- 16. Once cement job is complete, the cement head and offline cementing tool are removed. The wellhead technician returns to cellar to install wellhead/valves.
- 17. Install wellhead capping flange.

Barriers

Before Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus



After Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Offline cementing tool tested to 5000 psi and cement head
- Capping flange after cementing

20" Surface Casing Order of Operations (4 string area):

- 1. Run 20" surface casing as per normal operations (TPGS and float collar).
- 2. Perform negative pressure test to confirm integrity of float equipment while running casing.
- 3. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
- 4. Confirm well is static.
- 5. Back out landing joint and pull to rig floor. Lay down landing joint.
- 6. Make up cement head.
- 7. Walk rig to next well on pad with cement crew standing by to rig up.
- 8. Commence cement operations.
- 9. If cement circulates, confirm well is static and proceed to step 13.
- 10. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
- 11. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
- 12. Confirm well is static.
- 13. Once cement job is complete, remove cement head and install cap.

Barriers

Before Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement Head

After Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement head
- Capping flange after cementing



Intermediate Casing Order of Operations:

- 1. Run casing as per normal operations (float shoe and float collar).
- 2. Perform negative pressure test to confirm integrity of float equipment while running casing.
- 3. Confirm well is static (if running SBM).
- 4. Land casing.
- 5. Fill pipe, circulate casing capacity and confirm floats are still holding.
- 6. Confirm well is static.
- 7. Back out landing joint and pull to rig floor. Lay down landing joint. Install packoff & test.
- 8. Nipple down BOP.
- 9. Walk rig to next well on pad with cement crew standing by to rig up.
- 10. Make up offline cement tool using forklift per wellhead manufacturer (Fig. 3 8).
- 11. Make up cement head on top of offline cement tool.
- 12. Commence cement operations.
- 13. If cement circulates, confirm well is static and proceed to step 16.
- 14. If cement does not circulate (when required), notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
- 15. Pump remedial cement job if required.
- 16. Confirm well is static.
- 17. Remove cement head and offline cementing tool.
- 18. Install wellhead capping flange and test.

Barriers

Before Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff

After Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff
- Offline cementing tool tested to 5000 psi and cement head
- Capping flange after cementing



Risks:

- Pressure build up in annulus before cementing
 - o Contact BLM if a well control event occurs.
 - o Rig up 3rd party pump or rig pumps to pump down casing and kill well.
 - Returns will be taken through the wellhead valves to a choke manifold (Fig 9 & 10).
 - Well could also be killed through the wellhead valves down the annulus.

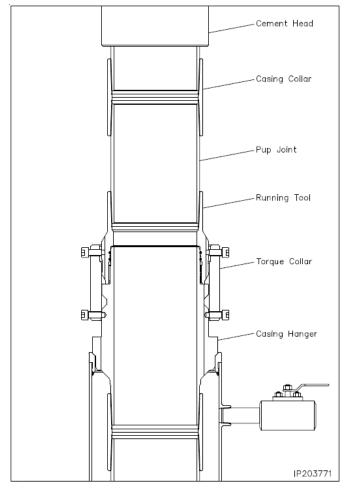


Figure 1. Cactus 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.



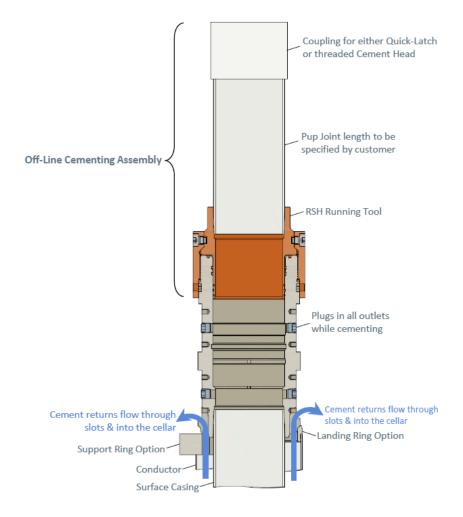


Figure 2. Vault 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.



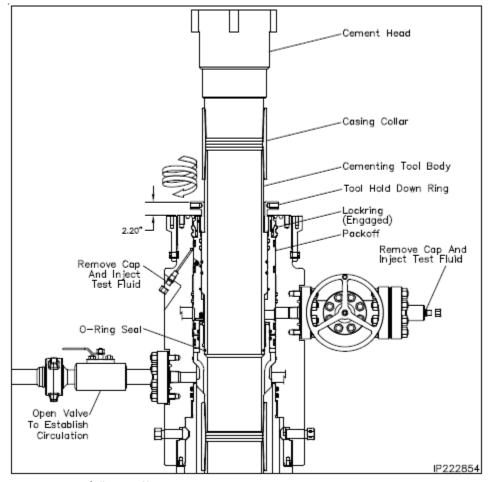


Figure 3. Cactus 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.



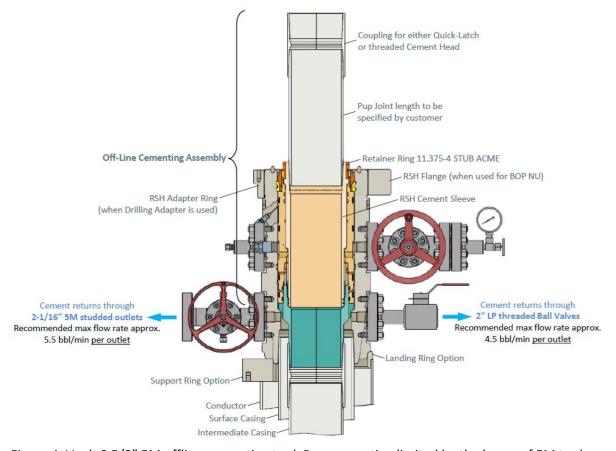


Figure 4. Vault 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.



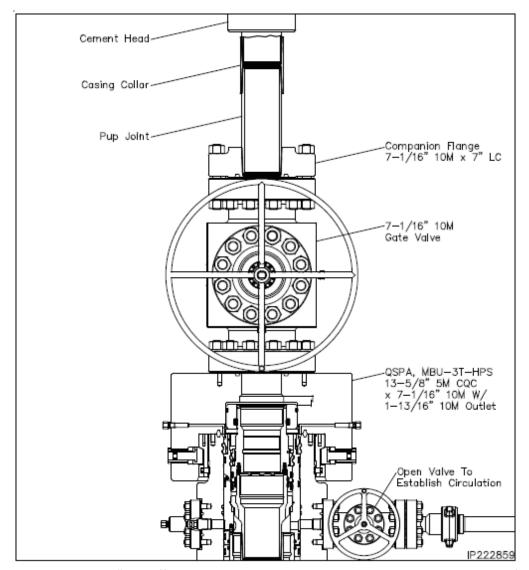


Figure 5. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



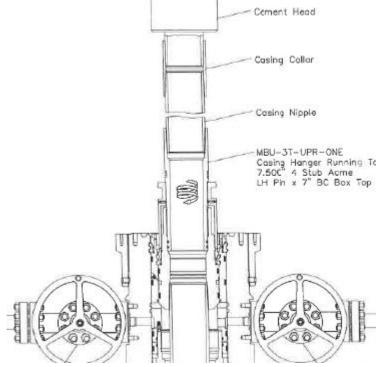


Figure 6. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



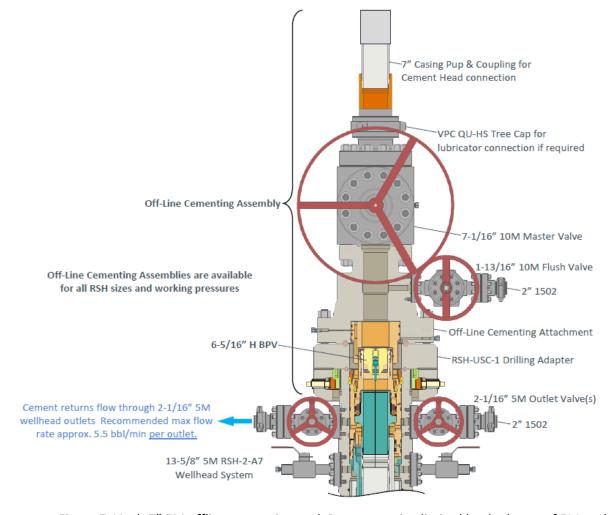


Figure 7. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



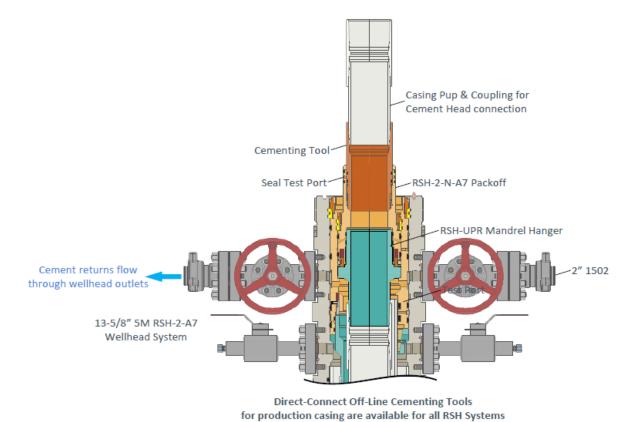


Figure 8. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



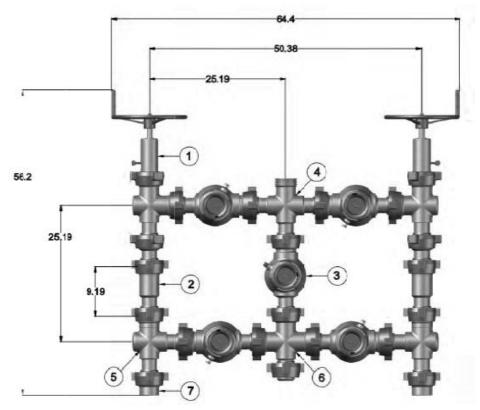


Figure 9. Five valve 15k choke manifold.

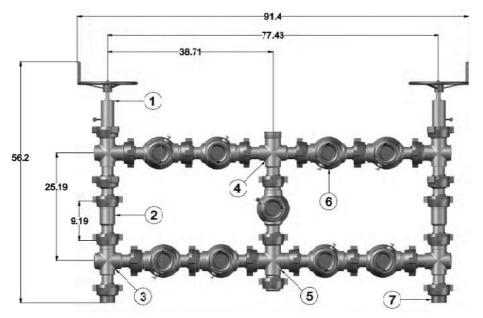


Figure 10. Nine valve 15k choke manifold.

Mewbourne Oil Company

Lea County, New Mexico NAD 83 Caper 20/29 Fed Com #562H

Sec 17, T21S, R32E

SHL: 1645' FSL & 1330' FWL (Sec 17) BHL: 100' FSL & 750' FWL (Sec 29)

Plan: Design #1

Standard Planning Report

11 September, 2023

Hobbs Database: Company: Mewbourne Oil Company Project: Lea County, New Mexico NAD 83

Caper 20/29 Fed Com #562H Site: Well: Sec 17, T21S, R32E

Wellbore: BHL: 100' FSL & 750' FWL (Sec 29) Design #1 Design:

Local Co-ordinate Reference: TVD Reference: MD Reference:

Survey Calculation Method:

North Reference:

Site Caper 20/29 Fed Com #562H WELL @ 3664.0ft (Original Well Elev) WELL @ 3664.0ft (Original Well Elev)

Minimum Curvature

Lea County, New Mexico NAD 83 Project

US State Plane 1983 Map System: North American Datum 1983 Geo Datum:

New Mexico Eastern Zone Map Zone:

System Datum: Mean Sea Level

Caper 20/29 Fed Com #562H Site

Northing: 163,816.65 m Site Position: Latitude: 32° 28' 33.381 N From: Мар Easting: 224,423.59 m Longitude: 103° 42' 4.059 W

Position Uncertainty: 0.0 ft Slot Radius: 13.200 in

Well Sec 17, T21S, R32E **Well Position** +N/-S 0.0 ft Northing: 163,816.65 m Latitude: 32° 28' 33.381 N +E/-W 0.0 ft Easting: 224,423.59 m Longitude: 103° 42' 4.059 W **Position Uncertainty** 0.0 ft Wellhead Elevation: 3,664.0 ft **Ground Level:** 3,636.0 ft 0.34° **Grid Convergence:**

BHL: 100' FSL & 750' FWL (Sec 29) Wellbore Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) 48,397.98806988 IGRF2010 12/31/2014 7.23 60.31

Design Design #1 **Audit Notes: PROTOTYPE** Tie On Depth: 0.0 Version: Phase: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 182.36 0.0 0.0 0.0

Plan Survey Tool Program Date 9/11/2023 **Depth From** Depth To (ft) (ft) Survey (Wellbore) **Tool Name** Remarks 21,598.8 0.0 Design #1 (BHL: 100' FSL & 750'

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,150.0	0.00	0.00	1,150.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,580.1	8.60	205.92	1,578.5	-29.0	-14.1	2.00	2.00	0.00	205.92	
9,902.7	8.60	205.92	9,807.5	-1,148.7	-558.2	0.00	0.00	0.00	0.00	
10,332.9	0.00	0.00	10,236.0	-1,177.7	-572.3	2.00	-2.00	0.00	180.00	KOP: 473' FSL & 750
11,225.1	89.21	179.62	10,809.0	-1,742.8	-568.6	10.00	10.00	0.00	179.62	
21,598.8	89.21	179.62	10,952.0	-12,115.3	-500.3	0.00	0.00	0.00	0.00	BHL: 100' FSL & 750

Database: Hobbs
Company: Mewbourne Oil Company
Project: Lea County, New Mexico NAD 83
Site: Caper 20/29 Fed Com #562H

 Well:
 Sec 17, T21S, R32E

 Wellbore:
 BHL: 100' FSL & 750' FWL (Sec 29)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Caper 20/29 Fed Com #562H WELL @ 3664.0ft (Original Well Elev) WELL @ 3664.0ft (Original Well Elev)

Grid

ed Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 1645'	FSL & 1330' FWL	. (Sec 17)							
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0		0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0		0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
4 000 0	0.00	0.00	4 000 0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0		0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0		0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,150.0		0.00	1,150.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0		205.92	1,200.0	-0.4	-0.2	0.4	2.00	2.00	0.00
1,300.0	3.00	205.92	1,299.9	-3.5	-1.7	3.6	2.00	2.00	0.00
1,400.0	5.00	205.92	1,399.7	-9.8	-4.8	10.0	2.00	2.00	0.00
1,500.0		205.92	1,499.1	-19.2	-9.3	19.6	2.00	2.00	0.00
1,580.1	8.60	205.92	1,578.5	-29.0	-14.1	29.5	2.00	2.00	0.00
1,600.0		205.92	1,598.2	-31.7	-15.4	32.3	0.00	0.00	0.00
1,700.0		205.92	1,697.0	-45.1	-21.9	46.0	0.00	0.00	0.00
			1,037.0						
1,800.0	8.60	205.92	1,795.9	-58.6	-28.5	59.7	0.00	0.00	0.00
1,900.0	8.60	205.92	1,894.8	-72.0	-35.0	73.4	0.00	0.00	0.00
2,000.0	8.60	205.92	1,993.7	-85.5	-41.5	87.1	0.00	0.00	0.00
2,100.0	8.60	205.92	2,092.5	-98.9	-48.1	100.8	0.00	0.00	0.00
2,200.0	8.60	205.92	2,191.4	-112.4	-54.6	114.5	0.00	0.00	0.00
2 200 0	8.60	205.02	2,290.3	-125.8	-61.2	128.3	0.00	0.00	0.00
2,300.0		205.92	,						
2,400.0		205.92	2,389.2	-139.3	-67.7	142.0	0.00	0.00	0.00
2,500.0		205.92	2,488.0	-152.7	-74.2	155.7	0.00	0.00	0.00
2,600.0		205.92	2,586.9	-166.2	-80.8	169.4	0.00	0.00	0.00
2,700.0	8.60	205.92	2,685.8	-179.7	-87.3	183.1	0.00	0.00	0.00
2,800.0	8.60	205.92	2,784.7	-193.1	-93.8	196.8	0.00	0.00	0.00
2,900.0	8.60	205.92	2,883.5	-206.6	-100.4	210.5	0.00	0.00	0.00
3,000.0	8.60	205.92	2,982.4	-220.0	-106.9	224.2	0.00	0.00	0.00
3,100.0	8.60	205.92	3,081.3	-233.5	-113.5	238.0	0.00	0.00	0.00
3,200.0		205.92	3,180.2	-246.9	-120.0	251.7	0.00	0.00	0.00
3,300.0		205.92	3,279.0	-260.4	-126.5	265.4	0.00	0.00	0.00
3,400.0		205.92	3,377.9	-273.8	-133.1	279.1	0.00	0.00	0.00
3,500.0		205.92	3,476.8	-287.3	-139.6	292.8	0.00	0.00	0.00
3,600.0		205.92	3,575.7	-300.7	-146.1	306.5	0.00	0.00	0.00
3,700.0	8.60	205.92	3,674.5	-314.2	-152.7	320.2	0.00	0.00	0.00
3,800.0	8.60	205.92	3,773.4	-327.7	-159.2	333.9	0.00	0.00	0.00
3,900.0		205.92	3,872.3	-341.1	-165.8	347.7	0.00	0.00	0.00
4,000.0		205.92	3,971.2	-354.6	-172.3	361.4	0.00	0.00	0.00
4,100.0		205.92	4,070.0	-368.0	-172.3	375.1	0.00	0.00	0.00
4,200.0		205.92	4,168.9	-381.5	-185.4	388.8	0.00	0.00	0.00
4,300.0		205.92	4,267.8	-394.9	-191.9	402.5	0.00	0.00	0.00
4,400.0		205.92	4,366.7	-408.4	-198.4	416.2	0.00	0.00	0.00
4,500.0		205.92	4,465.5	-421.8	-205.0	429.9	0.00	0.00	0.00
4,600.0	8.60	205.92	4,564.4	-435.3	-211.5	443.6	0.00	0.00	0.00
4,700.0	8.60	205.92	4,663.3	-448.7	-218.1	457.4	0.00	0.00	0.00
4,800.0	8.60	205.92	4,762.2	-462.2	-224.6	471.1	0.00	0.00	0.00
4,800.0		205.92	4,762.2 4,861.0	-462.2 -475.6	-224.6 -231.1	484.8	0.00	0.00	0.00
4,900.0	8.60	205.92	4,959.9	-475.6 -489.1	-231.1 -237.7	404.0 498.5	0.00	0.00	0.00

Database: Hobbs
Company: Mewbourne Oil Company
Project: Lea County, New Mexico NAD 83
Site: Caper 20/29 Fed Com #562H
Well: Sec 17, T21S, R32E

Wellbore: BHL: 100' FSL & 750' FWL (Sec 29)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Caper 20/29 Fed Com #562H WELL @ 3664.0ft (Original Well Elev) WELL @ 3664.0ft (Original Well Elev)

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,100.0 5,200.0	8.60 8.60	205.92 205.92	5,058.8 5,157.7	-502.6 -516.0	-244.2 -250.8	512.2 525.9	0.00 0.00	0.00 0.00	0.00 0.00
5,300.0	8.60	205.92	5,256.5	-529.5	-257.3	539.6	0.00	0.00	0.00
5,400.0	8.60	205.92	5,355.4	-542.9	-263.8	553.3	0.00	0.00	0.00
5,500.0	8.60	205.92	5,454.3	-556.4	-270.4	567.1	0.00	0.00	0.00
5,600.0 5,700.0	8.60 8.60	205.92 205.92	5,553.2 5,652.0	-569.8 -583.3	-276.9 -283.4	580.8 594.5	0.00 0.00	0.00 0.00	0.00 0.00
5,800.0	8.60	205.92	5,750.9	-596.7	-290.0	608.2	0.00	0.00	0.00
5,900.0	8.60	205.92	5,849.8	-610.2	-296.5	621.9	0.00	0.00	0.00
6,000.0	8.60	205.92	5,948.7	-623.6	-303.1	635.6	0.00	0.00	0.00
6,100.0	8.60	205.92	6,047.5	-637.1	-309.6	649.3	0.00	0.00	0.00
6,200.0	8.60	205.92	6,146.4	-650.5	-316.1	663.0	0.00	0.00	0.00
6,300.0	8.60	205.92	6,245.3	-664.0	-322.7	676.7	0.00	0.00	0.00
6,400.0	8.60	205.92	6,344.2	-677.5	-329.2	690.5	0.00	0.00	0.00
6,500.0 6,600.0	8.60	205.92	6,443.0 6,541.0	-690.9	-335.7 -342.3	704.2	0.00	0.00	0.00
6,700.0	8.60 8.60	205.92 205.92	6,541.9 6,640.8	-704.4 -717.8	-342.3 -348.8	717.9 731.6	0.00 0.00	0.00 0.00	0.00 0.00
6,800.0	8.60	205.92	6,739.7	-731.3	-355.4	745.3	0.00	0.00	0.00
6,900.0	8.60	205.92	6,838.5	-744.7	-361.9	759.0	0.00	0.00	0.00
7,000.0	8.60	205.92	6,937.4	-758.2	-368.4	772.7	0.00	0.00	0.00
7,100.0	8.60	205.92	7,036.3	-771.6	-375.0	786.4	0.00	0.00	0.00
7,200.0	8.60	205.92	7,135.2	-785.1	-381.5	800.2	0.00	0.00	0.00
7,300.0	8.60	205.92	7,234.0	-798.5	-388.0	813.9	0.00	0.00	0.00
7,400.0	8.60	205.92	7,332.9	-812.0	-394.6	827.6	0.00	0.00	0.00
7,500.0	8.60	205.92	7,431.8	-825.4	-401.1	841.3	0.00	0.00	0.00
7,600.0	8.60	205.92	7,530.7	-838.9	-407.7	855.0	0.00	0.00	0.00
7,700.0	8.60	205.92	7,629.5	-852.4	-414.2	868.7	0.00	0.00	0.00
7,800.0	8.60	205.92	7,728.4	-865.8	-420.7	882.4	0.00	0.00	0.00
7,900.0	8.60	205.92	7,827.3	-879.3	-427.3	896.1	0.00	0.00	0.00
8,000.0	8.60	205.92	7,926.2	-892.7	-433.8	909.9	0.00	0.00	0.00
8,100.0	8.60	205.92	8,025.0	-906.2	-440.4	923.6	0.00	0.00	0.00
8,200.0	8.60	205.92	8,123.9	-919.6	-446.9	937.3	0.00	0.00	0.00
8,300.0	8.60	205.92	8,222.8	-933.1	-453.4	951.0	0.00	0.00	0.00
8,400.0	8.60	205.92	8,321.7	-946.5	-460.0	964.7	0.00	0.00	0.00
8,500.0	8.60	205.92	8,420.5 8,519.4	-960.0	-466.5	978.4 992.1	0.00	0.00	0.00
8,600.0 8,700.0	8.60 8.60	205.92 205.92	8,519.4 8,618.3	-973.4 -986.9	-473.0 -479.6	1,005.8	0.00 0.00	0.00 0.00	0.00 0.00
8,800.0	8.60	205.92	8,717.2	-1,000.4	-486.1	1,019.6	0.00	0.00	0.00
8,900.0	8.60	205.92	8,816.0	-1,013.8	-492.7	1,033.3	0.00	0.00	0.00
9,000.0	8.60	205.92	8,914.9	-1,027.3	-499.2	1,047.0	0.00	0.00	0.00
9,100.0	8.60	205.92	9,013.8	-1,040.7	-505.7	1,060.7	0.00	0.00	0.00
9,200.0	8.60	205.92	9,112.7	-1,054.2	-512.3	1,074.4	0.00	0.00	0.00
9,300.0	8.60	205.92	9,211.5	-1,067.6	-518.8	1,088.1	0.00	0.00	0.00
9,400.0	8.60	205.92	9,310.4	-1,081.1	-525.3	1,101.8	0.00	0.00	0.00
9,500.0	8.60	205.92	9,409.3	-1,094.5	-531.9	1,115.5	0.00	0.00	0.00
9,600.0	8.60	205.92	9,508.2	-1,108.0	-538.4	1,129.3	0.00	0.00	0.00
9,700.0	8.60	205.92	9,607.0	-1,121.4	-545.0	1,143.0	0.00	0.00	0.00
9,800.0	8.60	205.92	9,705.9	-1,134.9	-551.5	1,156.7	0.00	0.00	0.00
9,902.7	8.60	205.92	9,807.5	-1,148.7	-558.2	1,170.8	0.00	0.00	0.00
10,000.0 10,100.0	6.66	205.92	9,903.9 10,003.4	-1,160.3 1 160.3	-563.9	1,182.6 1,191.6	2.00	-2.00 -2.00	0.00
10,100.0	4.66 2.66	205.92 205.92	10,003.4	-1,169.2 -1,174.9	-568.2 -571.0	1,191.6	2.00 2.00	-2.00 -2.00	0.00 0.00
10,300.0	0.66	205.92	10,203.2	-1,177.5	-572.2	1,200.1	2.00	-2.00	0.00
10,332.9	0.00	0.00	10,236.0	-1,177.7	-572.3	1,200.3	2.00	-2.00	0.00

Database: Hobbs
Company: Mewbourne Oil Company
Project: Lea County, New Mexico NAD 83
Site: Caper 20/29 Fed Com #562H
Well: Sec 17, T21S, R32E

Wellbore: Sec 17, 1215, R32E

Wellbore: BHL: 100' FSL & 750' FWL (Sec 29)

Design: Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Site Caper 20/29 Fed Com #562H WELL @ 3664.0ft (Original Well Elev) WELL @ 3664.0ft (Original Well Elev)

sign.		Design #1								
anned Su	ırvey									
	easured Depth (ft)	Inclination	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
.,										
K		L & 750' FWL (S	,	40.050.0	4 470 0	570.0	4 000 0	40.00	40.00	0.00
	10,350.0	1.71	179.62	10,253.2	-1,178.0	-572.3	1,200.6	10.00	10.00	0.00
	10,400.0 10,450.0	6.71 11.71	179.62 179.62	10,303.0 10,352.3	-1,181.6 -1,189.6	-572.3 -572.2	1,204.2 1,212.2	10.00 10.00	10.00 10.00	0.00 0.00
	10,500.0	16.71	179.62	10,400.8	-1,201.9	-572.1	1,224.5	10.00	10.00	0.00
	10,550.0	21.71	179.62	10,448.0	-1,218.3	-572.0	1,240.9	10.00	10.00	0.00
	10,600.0	26.71	179.62	10,493.6	-1,238.8	-571.9	1,261.4	10.00	10.00	0.00
	10,650.0	31.71	179.62	10,537.2	-1,263.2	-571.7	1,285.8	10.00	10.00	0.00
	10,700.0	36.71	179.62	10,578.6	-1,291.3	-571.6	1,313.8	10.00	10.00	0.00
	10,750.0	41.71	179.62	10,617.3	-1,322.9	-571.3	1,345.4	10.00	10.00	0.00
	10,800.0	46.71	179.62	10,653.1	-1,357.8	-571.1	1,380.2	10.00	10.00	0.00
	10,850.0	51.70	179.62	10,685.8	-1,395.6	-570.9	1,418.0	10.00	10.00	0.00
	10,900.0	56.70	179.62	10,715.0	-1,436.2	-570.6	1,458.5	10.00	10.00	0.00
	10,950.0	61.70	179.62	10,740.6	-1,479.1	-570.3	1,501.4	10.00	10.00	0.00
	11,000.0	66.70	179.62	10,762.3	-1,524.1	-570.0	1,546.3	10.00	10.00	0.00
	11,000.0	71.70	179.62	10,782.3	-1,570.8	-569.7	1,593.0	10.00	10.00	0.00
	11,000.0	76.70	179.62	10,780.1	-1,618.9	-569.4	1,641.0	10.00	10.00	0.00
	11,150.0	81.70	179.62	10,803.1	-1,668.0	-569.1	1,690.1	10.00	10.00	0.00
	11,200.0	86.70	179.62	10,808.1	-1,717.7	-568.7	1,739.7	10.00	10.00	0.00
	11,225.1	89.21	179.62	10,809.0	-1,742.8	-568.6	1.764.8	10.00	10.00	0.00
	11,232.9	89.21	179.62	10,809.1	-1,750.6	-568.5	1,772.6	0.00	0.00	0.00
F		L & 750' FWL (S		,	,		,			
	11,300.0	89.21	179.62	10,810.1	-1,817.7	-568.1	1,839.6	0.00	0.00	0.00
	11,400.0	89.21	179.62	10,811.4	-1,917.7	-567.4	1,939.5	0.00	0.00	0.00
	11,500.0	89.21	179.62	10,812.8	-2,017.7	-566.8	2,039.4	0.00	0.00	0.00
	11,600.0	89.21	179.62	10,814.2	-2,117.7	-566.1	2,139.2	0.00	0.00	0.00
	11,700.0	89.21	179.62	10,815.6	-2,217.7	-565.5	2,239.1	0.00	0.00	0.00
	11,800.0	89.21	179.62	10,816.9	-2,317.7	-564.8	2,339.0	0.00	0.00	0.00
	11,900.0	89.21	179.62	10,818.3	-2,417.7	-564.1	2,438.9	0.00	0.00	0.00
	12,000.0	89.21	179.62	10,819.7	-2,517.6	-563.5	2,538.7	0.00	0.00	0.00
	12,100.0	89.21	179.62	10,821.1	-2,617.6	-562.8	2,638.6	0.00	0.00	0.00
	12,100.0	89.21	179.62	10,822.5	-2,717.6	-562.2	2,738.5	0.00	0.00	0.00
	12,300.0	89.21	179.62	10,823.8	-2,817.6	-561.5	2,838.4	0.00	0.00	0.00
	12,400.0	89.21	179.62	10,825.2	-2,917.6	-560.8	2,938.2	0.00	0.00	0.00
	12,500.0	89.21	179.62	10,826.6	-3,017.6	-560.2	3,038.1	0.00	0.00	0.00
	12,600.0	89.21	179.62	10,828.0	-3,117.6	-559.5	3,138.0	0.00	0.00	0.00
	12,700.0	89.21	179.62	10,829.4	-3,217.6	-558.9	3,237.9	0.00	0.00	0.00
	12,700.0	89.21	179.62	10,829.4	-3,317.5	-558.2	3,337.8	0.00	0.00	0.00
	12,900.0	89.21	179.62	10,832.1	-3,417.5	-557.6	3,437.6	0.00	0.00	0.00
	13,000.0	89.21	179.62	10,833.5	-3,517.5	-556.9	3,537.5	0.00	0.00	0.00
	13,100.0	89.21	179.62	10,834.9	-3,617.5	-556.2	3,637.4	0.00	0.00	0.00
	13,100.0	89.21	179.62	10,834.9	-3,717.5	-555.6	3,737.3	0.00	0.00	0.00
	13,300.0	89.21	179.62	10,837.6	-3,817.5	-554.9	3,837.1	0.00	0.00	0.00
	13,400.0	89.21	179.62	10,839.0	-3,917.5	-554.3	3,937.0	0.00	0.00	0.00
	13,500.0	89.21	179.62	10,840.4	-4,017.5	-553.6	4,036.9	0.00	0.00	0.00
	13,600.0	89.21	179.62	10,841.8	-4,117.5	-552.9	4,136.8	0.00	0.00	0.00
	13,700.0	89.21	179.62	10,843.1	-4,117.5 -4,217.4	-552.9 -552.3	4,136.6	0.00	0.00	0.00
	13,774.1	89.21	179.62	10,844.2	-4,217.4 -4,291.5	-552.5 -551.8	4,230.6	0.00	0.00	0.00
PI		FSL & 750' FWL		. 0,0 17.2	1,201.0	551.0	1,010.0	0.00	3.00	0.00
r	13,800.0	89.21	179.62	10,844.5	-4,317.4	-551.6	4,336.5	0.00	0.00	0.00
	13,900.0	89.21	179.62	10,845.9	-4,417.4	-551.0	4,436.4	0.00	0.00	0.00
	14,000.0	89.21								
	,		179.62 179.62	10,847.3	-4,517.4 -4.617.4	-550.3 -549.7	4,536.3 4,636.1	0.00 0.00	0.00 0.00	0.00
	14,100.0	89.21	179.62	10,848.7	-4,617.4	-549.7	4,636.1	0.00	0.00	0.00

Database: Hobbs
Company: Mewbourne Oil Company
Project: Lea County, New Mexico NAD 83
Site: Caper 20/29 Fed Com #562H
Well: Sec 17, T21S, R32E

Wellbore: BHL: 100' FSL & 750' FWL (Sec 29)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Caper 20/29 Fed Com #562H WELL @ 3664.0ft (Original Well Elev) WELL @ 3664.0ft (Original Well Elev)

Grid

lanned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth		A 1 41.	Depth		. = / 14/	Section	Rate	Rate	Rate
(ft)	Inclination (°)	Azimuth (°)	(ft)	+N/-S (ft)	+E/-W (ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
							, ,		` '
14,200.0		179.62	10,850.0	-4,717.4	-549.0	4,736.0	0.00	0.00	0.00
14,300.0		179.62	10,851.4	-4,817.4	-548.3	4,835.9	0.00	0.00	0.00
14,400.0	89.21	179.62	10,852.8	-4,917.4	-547.7	4,935.8	0.00	0.00	0.00
14,500.0		179.62	10,854.2	-5,017.4	-547.0	5,035.6	0.00	0.00	0.00
14,600.0	89.21	179.62	10,855.5	-5,117.3	-546.4	5,135.5	0.00	0.00	0.00
14,700.0	89.21	179.62	10,856.9	-5,217.3	-545.7	5,235.4	0.00	0.00	0.00
14,800.0		179.62	10,858.3	-5,317.3	-545.1	5,335.3	0.00	0.00	0.00
14,900.0	89.21	179.62	10,859.7	-5,417.3	-544.4	5,435.2	0.00	0.00	0.00
15,000.0	89.21	179.62	10,861.1	-5,517.3	-543.7	5,535.0	0.00	0.00	0.00
15,100.0		179.62	10,862.4	-5,617.3	-543.1	5,634.9	0.00	0.00	0.00
15,200.0		179.62	10,863.8	-5,717.3	-542.4	5,734.8	0.00	0.00	0.00
15,300.0		179.62	10,865.2	-5,817.3	-541.8	5,834.7	0.00	0.00	0.00
15,400.0		179.62	10,866.6	-5,917.2	-541.1	5,934.5	0.00	0.00	0.00
15,500.0		179.62	10,868.0	-6,017.2	-540.4	6,034.4	0.00	0.00	0.00
15,600.0		179.62	10,869.3	-6,117.2	-539.8	6,134.3	0.00	0.00	0.00
15,700.0		179.62	10,870.7	-6,217.2	-539.1	6,234.2	0.00	0.00	0.00
15,800.0		179.62	10,872.1	-6,317.2	-538.5	6,334.0	0.00	0.00	0.00
15,900.0		179.62	10,873.5	-6,417.2	-537.8	6,433.9	0.00	0.00	0.00
16,000.0		179.62	10,874.8	-6,517.2	-537.2	6,533.8	0.00	0.00	0.00
16,100.0	89.21	179.62	10,876.2	-6,617.2	-536.5	6,633.7	0.00	0.00	0.00
16,200.0		179.62	10,877.6	-6,717.2	-535.8	6,733.5	0.00	0.00	0.00
16,300.0	89.21	179.62	10,879.0	-6,817.1	-535.2	6,833.4	0.00	0.00	0.00
16,400.0	89.21	179.62	10,880.4	-6,917.1	-534.5	6,933.3	0.00	0.00	0.00
16,500.0	89.21	179.62	10,881.7	-7,017.1	-533.9	7,033.2	0.00	0.00	0.00
16,600.0		179.62	10,883.1	-7,117.1	-533.2	7,133.1	0.00	0.00	0.00
16,700.0		179.62	10,884.5	-7,217.1	-532.5	7,232.9	0.00	0.00	0.00
16,800.0		179.62	10,885.9	-7,317.1	-531.9	7,332.8	0.00	0.00	0.00
16,900.0		179.62	10,887.2	-7,417.1	-531.2	7,432.7	0.00	0.00	0.00
17,000.0		179.62	10,888.6	-7,517.1	-530.6	7,532.6	0.00	0.00	0.00
17,100.0		179.62	10,890.0	-7,617.1	-529.9	7,632.4	0.00	0.00	0.00
17,200.0		179.62	10,891.4	-7,717.0	-529.3	7,732.3	0.00	0.00	0.00
17,300.0		179.62	10,892.8	-7,817.0	-528.6	7,832.2	0.00	0.00 0.00	0.00
17,400.0		179.62	10,894.1	-7,917.0	-527.9	7,932.1	0.00		0.00
17,500.0		179.62	10,895.5	-8,017.0	-527.3	8,031.9	0.00	0.00	0.00
17,600.0		179.62	10,896.9	-8,117.0	-526.6	8,131.8	0.00	0.00	0.00
17,700.0		179.62	10,898.3	-8,217.0	-526.0	8,231.7	0.00	0.00	0.00
17,736.2	89.21	179.62	10,898.8	-8,253.1	-525.7	8,267.8	0.00	0.00	0.00
PPP3: 132	1' FNL & 750' FWI	, ,							
17,800.0	89.21	179.62	10,899.7	-8,317.0	-525.3	8,331.6	0.00	0.00	0.00
17,900.0	89.21	179.62	10,901.0	-8,417.0	-524.6	8,431.4	0.00	0.00	0.00
18,000.0		179.62	10,901.0	-8,517.0	-524.0	8,531.3	0.00	0.00	0.00
18,100.0		179.62	10,902.4	-8,616.9	-523.3	8,631.2	0.00	0.00	0.00
18,200.0		179.62	10,905.2	-8,716.9	-522.7	8,731.1	0.00	0.00	0.00
18,300.0		179.62	10,906.5	-8,816.9	-522.0	8,830.9	0.00	0.00	0.00
18,400.0		179.62	10,907.9	-8,916.9	-521.4	8,930.8	0.00	0.00	0.00
18,500.0		179.62	10,909.3	-9,016.9	-520.7	9,030.7	0.00	0.00	0.00
18,600.0		179.62	10,910.7	-9,116.9	-520.0	9,130.6	0.00	0.00	0.00
18,700.0		179.62	10,912.1	-9,216.9	-519.4	9,230.5	0.00	0.00	0.00
18,800.0	89.21	179.62	10,913.4	-9,316.9	-518.7	9,330.3	0.00	0.00	0.00
18,900.0	89.21	179.62	10,914.8	-9,416.8	-518.1	9,430.2	0.00	0.00	0.00
19,000.0		179.62	10,916.2	-9,516.8	-517.4	9,530.1	0.00	0.00	0.00
19,057.1		179.62	10,917.0	-9,573.9	-517.0	9,587.1	0.00	0.00	0.00
	2' FSL & 749' FWL		, -						
19,100.0		179.62	10,917.6	-9,616.8	-516.7	9,630.0	0.00	0.00	0.00
15,100.0	00.21	170.02	10,017.0	0,010.0	010.7	5,500.0	0.00	0.00	0.00

Database:HobbsCompany:Mewbourne Oil CompanyProject:Lea County, New Mexico NAD 83Site:Caper 20/29 Fed Com #562H

 Well:
 Sec 17, T21S, R32E

 Wellbore:
 BHL: 100' FSL & 750' FWL (Sec 29)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Caper 20/29 Fed Com #562H WELL @ 3664.0ft (Original Well Elev) WELL @ 3664.0ft (Original Well Elev)

Grid

ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
19,200.0	89.21	179.62	10,919.0	-9,716.8	-516.1	9,729.8	0.00	0.00	0.00
19,300.0	89.21	179.62	10,920.3	-9,816.8	-515.4	9,829.7	0.00	0.00	0.00
19,400.0	89.21	179.62	10,921.7	-9,916.8	-514.8	9,929.6	0.00	0.00	0.00
19,500.0	89.21	179.62	10,923.1	-10,016.8	-514.1	10,029.5	0.00	0.00	0.00
19,600.0	89.21	179.62	10,924.5	-10,116.8	-513.5	10,129.3	0.00	0.00	0.00
19,700.0	89.21	179.62	10,925.8	-10,216.8	-512.8	10,229.2	0.00	0.00	0.00
19,800.0	89.21	179.62	10,927.2	-10,316.7	-512.1	10,329.1	0.00	0.00	0.00
19,900.0	89.21	179.62	10,928.6	-10,416.7	-511.5	10,429.0	0.00	0.00	0.00
20,000.0	89.21	179.62	10,930.0	-10,516.7	-510.8	10,528.8	0.00	0.00	0.00
20,100.0	89.21	179.62	10,931.4	-10,616.7	-510.2	10,628.7	0.00	0.00	0.00
20,200.0 20,300.0 20,378.0 PPP5: 1321'	89.21 89.21 89.21 FSL & 748' FWL	179.62 179.62 179.62	10,932.7 10,934.1 10,935.2	-10,716.7 -10,816.7 -10,894.6	-509.5 -508.8 -508.3	10,728.6 10,828.5 10,906.3	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
20,400.0	89.21	179.62	10,935.5	-10,916.7	-508.2	10,928.3	0.00	0.00	0.00
20,500.0	89.21	179.62	10,936.9	-11,016.7	-507.5	11,028.2	0.00	0.00	0.00
20,600.0	89.21	179.62	10,938.3	-11,116.7	-506.9	11,128.1	0.00	0.00	0.00
20,700.0	89.21	179.62	10,939.6	-11,216.6	-506.2	11,228.0	0.00	0.00	0.00
20,800.0	89.21	179.62	10,941.0	-11,316.6	-505.6	11,327.9	0.00	0.00	0.00
20,900.0	89.21	179.62	10,942.4	-11,416.6	-504.9	11,427.7	0.00	0.00	0.00
21,000.0	89.21	179.62	10,943.8	-11,516.6	-504.2	11,527.6	0.00	0.00	0.00
21,100.0	89.21	179.62	10,945.1	-11,616.6	-503.6	11,627.5	0.00	0.00	0.00
21,200.0	89.21	179.62	10,946.5	-11,716.6	-502.9	11,727.4	0.00	0.00	0.00
21,300.0	89.21	179.62	10,947.9	-11,816.6	-502.3	11,827.2	0.00	0.00	0.00
21,400.0	89.21	179.62	10,949.3	-11,916.6	-501.6	11,927.1	0.00	0.00	0.00
21,500.0	89.21	179.62	10,950.7	-12,016.5	-501.0	12,027.0	0.00	0.00	0.00
21,598.8	89.21	179.62	10,952.0	-12,115.3	-500.3	12,125.6	0.00	0.00	0.00

Database:HobbsCompany:Mewbourne Oil CompanyProject:Lea County, New Mexico NAD 83Site:Caper 20/29 Fed Com #562H

 Well:
 Sec 17, T21S, R32E

 Wellbore:
 BHL: 100' FSL & 750' FWL (Sec 29)

Design: Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Site Caper 20/29 Fed Com #562H WELL @ 3664.0ft (Original Well Elev) WELL @ 3664.0ft (Original Well Elev)

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
SHL: 1645' FSL & 1330' - plan hits target cent - Point	0.00 ter	0.00	0.0	0.0	0.0	163,816.65	224,423.59	32° 28' 33.381 N	103° 42' 4.059 W
KOP: 473' FSL & 750' F\ - plan hits target cen' - Point	0.00 ter	0.00	10,236.0	-1,177.7	-572.3	163,457.68	224,249.15	32° 28' 21.761 N	103° 42' 10.820 W
FTP: 100' FNL & 750' FV - plan hits target cent - Point	0.00 ter	0.00	10,809.1	-1,750.6	-568.5	163,283.06	224,250.30	32° 28′ 16.092 N	103° 42' 10.816 W
PPP2: 2641' FSL & 750' - plan hits target cent - Point	0.00 ter	0.00	10,844.2	-4,291.5	-551.8	162,508.59	224,255.40	32° 27′ 50.949 N	103° 42' 10.796 W
PPP3: 1321' FNL & 750' - plan hits target cent - Point	0.00 ter	0.00	10,898.8	-8,253.1	-525.7	161,301.10	224,263.35	32° 27' 11.747 N	103° 42' 10.765 W
PPP4: 2642' FSL & 749' - plan hits target cent	0.00 ter	0.00	10,917.0	-9,573.9	-517.0	160,898.52	224,266.00	32° 26' 58.677 N	103° 42' 10.754 W
PPP5: 1321' FSL & 748' - plan hits target cent	0.00 ter	0.01	10,935.2	-10,894.6	-508.3	160,495.96	224,268.65	32° 26′ 45.608 N	103° 42' 10.744 W
BHL: 100' FSL & 750' FV - plan hits target cent - Point	0.00 ter	0.00	10,952.0	-12,115.3	-500.3	160,123.89	224,271.09	32° 26' 33.529 N	103° 42' 10.734 W

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Numbe	er	² Pool Code 5695	BILBREY BASIN; BONE			
⁴ Property Code			pperty Name 0/29 FED COM	⁶ Well Number 562H		
⁷ OGRID NO. 14744		1	erator Name E OIL COMPANY	⁹ Elevation 3636		

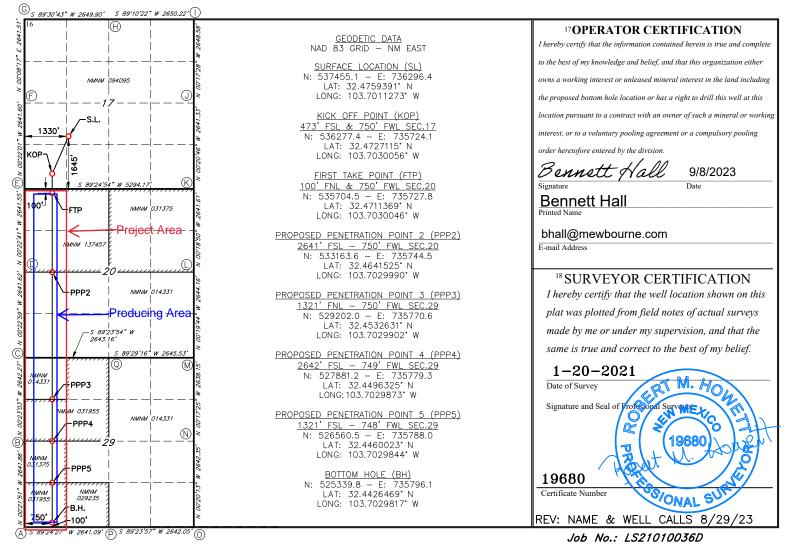
¹⁰ Surface Location

	Surface Electron												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County				
K	17	21S	32E		1645	SOUTH	1330	WEST	LEA				
¹¹ Bottom Hole Location If Different From Surface													
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County				

 M
 29
 21S
 32E
 100
 SOUTH
 750
 WEST
 LEA

 12 Dedicated Acres 320
 13 Joint or Infill
 14 Consolidation Code 15 Order No.
 15 Orde

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



29

13 Joint or Infill

21S

32E

14 Consolidation Code

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

LEA

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number	:		2Pool Code 5695 BILBREY BASIN; BONE SPRING								
4Property Co	4Property Code SProperty Name CAPER 20/29 FED COM									⁶ Well Number 562H		
⁷ OGRID				Name IL COMPANY				Elevation 3636'				
					10 Surface	Location						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/We	est line	County		
K	17	21S	32E		1645	SOUTH	1330	WE	ST	LEA		
	¹¹ Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County		

12 Dedicated Acres 320

100

15 Order No.

SOUTH

750

WEST

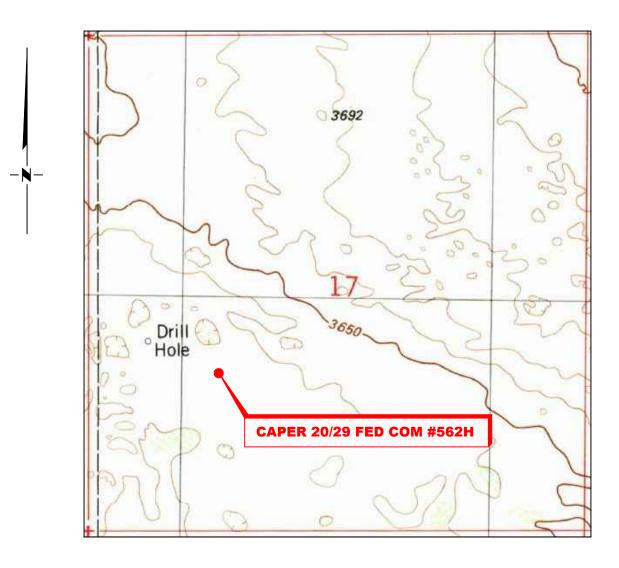
No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this CORNER DATA NAD 83 GRID — NM location pursuant to a contract with an owner of such a mineral or working - NM EAST interest, or to a voluntary pooling agreement or a compulsory pooling A: FOUND BRASS CAP "1916" J: FOUND BRASS CAP "1916" order heretofore entered by the division N: 525232.1 - E: 735046.9 N: 538491.6 - E: 740254.1 Bennett 9/8/2023 B: FOUND BRASS CAP "1916" K: FOUND BRASS CAP "1916" N: 527873.3 - E: 735030.1 N: 535850.9 - E: 740270.1 Bennett Hall C: FOUND BRASS CAP "1916" L: FOUND BRASS CAP "1916" Printed Name N: 530515.0 - E: 735012.4 N: 533209.9 - E: 740284.5 D: FOUND BRASS CAP "1916" M: FOUND BRASS CAP "1916" bhall@mewbourne.com N: 533156.0 - E: 734994.8 N: 530566.4 - E: 740299.7 E-mail Address E: FOUND BRASS CAP "1916" N: FOUND BRASS CAP "1916" N: 535796.9 - E: 734977.4 N: 527928.8 - E: 740313.1 18 SURVEYOR CERTIFICATION O: FOUND BRASS CAP "1916" F: FOUND BRASS CAP "1916" I hereby certify that the well location shown on this N: 538437.8 - E: 734960.4 N: 525287.1 - E: 740328.6 plat was plotted from field notes of actual surveys G: CALCULATED CORNER P: FOUND BRASS CAP "1916" made by me or under my supervision, and that the N: 541078.8 - E: 734942.1 N: 525259.4 - E: 737687.3 same is true and correct to the best of my belief. H: FOUND BRASS CAP "1916" Q: FOUND BRASS CAP "1916" N: 541101.3 - E: 737591.3 N: 530542.7 - E: 737654.9 1-20-2021 I: FOUND BRASS CAP "1916" Date of Survey N: 541139.6 - E: 740240.7 Signature and Seal of 19680 Certificate Number ONAL REV: NAME & WELL CALLS 8/29/23

Job No.: LS21010036D

LOCATION VERIFICATION MAP

NOT TO SCALE



SECTION 17, TWP. 21 SOUTH, RGE. 32 EAST, N. M. P. M., LEA CO., NEW MEXICO

OPERATOR: Mewbourne Oil Company

LEASE: Caper 20/29 Fed Com

WELL NO.: 562H

ELEVATION: 3636'

LOCATION: 1645' FSL & 1330' FWL

CONTOUR INTERVAL: 10'

USGS TOPO. SOURCE MAP:

The Divide, NM (P. E. 1984)

NAME CHANGE 8/29/23 1 NO. **REVISION** DATE JOB NO.: LS21010036D

DWG. NO.: 21010036D-2

ENERGY SERVICES, LLC. 701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000' DATE: 1-20-2021 SURVEYED BY: ML/JC DRAWN BY: LPS APPROVED BY: RMH SHEET:

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VICINITY MAP

NOT TO SCALE



SECTION 17, TWP. 21 SOUTH, RGE. 32 EAST, N. M. P. M., LEA CO., NEW MEXICO

OPERATOR: Mewbourne Oil Company LOCATION: 1645' FSL & 1330' FWL

LEASE: Caper 20/29 Fed Com

WELL NO.: 562H

ELEVATION: 3636'

1 | NAME CHANGE | 8/29/23 NO. REVISION

JOB NO.: LS21010036D DWG. NO.: 21010036D-3

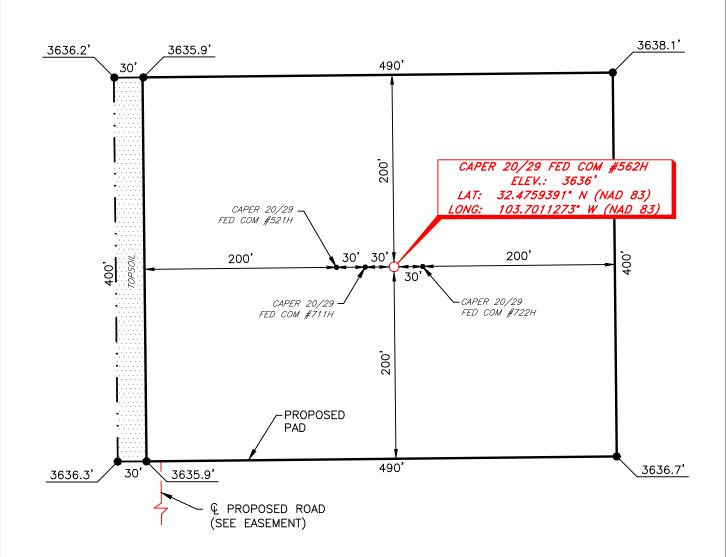
ENERGY SERVICES, LLC. 701 S. CECIL ST., HOBBS, NM 88240

(575) 964-8200

SCALE: N. T. S. DATE: 1-20-2021 SURVEYED BY: ML/JC DRAWN BY: LPS APPROVED BY: RMH SHEET:

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MEWBOURNE OIL COMPANY CAPER 20/29 FED COM #562H (1645' FSL & 1330' FWL) SECTION 17, T21S, R32E N. M. P. M., LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of Hwy 62/180 and CR-#29 (Campbell Rd.);

Go South on CR-#29 approx. 5.7 miles to a lease road on the left;

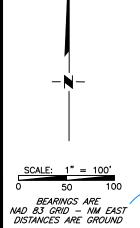
Turn left and go East approx. 1.0 miles to a lease road on the right;

Turn right and go South approx. 0.1 miles to curve to the left;

Turn left and go East approx. 0.2 miles to a lease road on the left;

Turn left and go North approx. 0.1 miles to a proposed road;

Continue North on proposed road approx. 0.1 miles to location on the right.



I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett NM PS 19680

1 NAME CHANGE 8/29/23
NO. REVISION DATE

JOB NO.: LS21010036D

DWG. NO.: 21010036D-4

ENERGY SERVICES, LLC.

701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 100'

DATE: 1-20-2021

SURVEYED BY: ML/JC

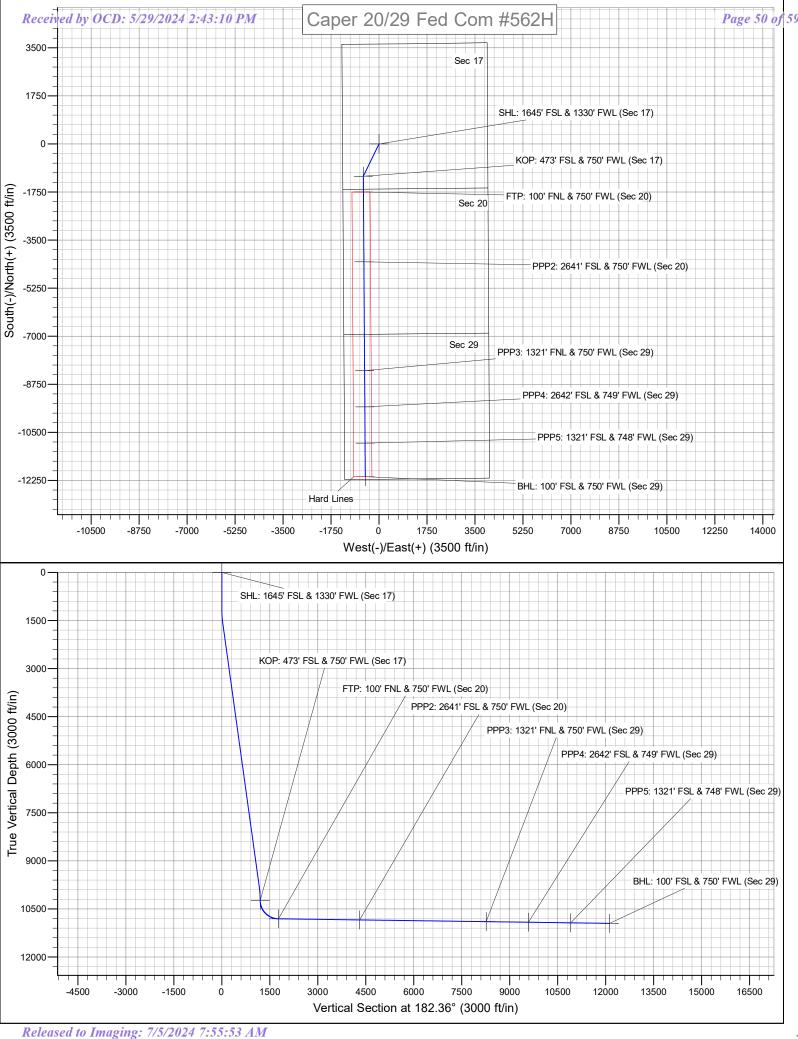
DRAWN BY: LPS

APPROVED BY: RMH

SHEET: 1 OF 1

SS/ONAL

M. HOL





Mewbourne Oil Co.

BOP Break Testing Variance

Mewbourne Oil Company requests a variance from the minimum standards for well control equipment testing of 43 CFR 3172 to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with batch drilling & offline cementing operations. Modern rig upgrades which facilitate pad drilling allow the BOP stack to be moved between wells on a multi-well pad without breaking any BOP stack components apart. Widespread use of these technologies has led to break testing BOPE being endorsed as safe and reliable. American Petroleum Institute (API) best practices are frequently used by regulators to develop their regulations. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (5th Ed., Dec. 2018) Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component."

Procedures

- 1. Full BOPE test at first installation on the pad.
 - Full BOPE test at least every 21 days.
 - Function test BOP elements per 43 CFR 3172.
 - Contact the BLM if a well control event occurs.
- 2. After the well section is secured and the well is confirmed to be static, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad. Two breaks on the BOPE will be made (Fig. 1).
 - Connection between the flex line and the HCR valve
 - Connection between the wellhead and the BOP quick connect (Fig. 5 & 6).
- 3. A capping flange will be installed after cementing per wellhead vendor procedure & casing pressure will be monitored via wellhead valve.
- 4. The BOP will be removed and carried by a hydraulic carrier (Fig. 3 & 4).
- 5. The rig will then walk to the next well.
- 6. Confirm that the well is static and remove the capping flange.
- 7. The connection between the flex line and HCR valve and the connection between the wellhead and the BOP quick connect will be reconnected.
- 8. Install a test plug into the wellhead.
- 9. A test will then be conducted against the upper pipe rams and choke, testing both breaks (Fig. 1 & 2).
- 10. The test will be held at 250 psi low and to the high value submitted in the APD, not to exceed 5000 psi.
- 11. The annular, blind rams and lower pipe rams will then be function tested.
- 12. If a pad consists of three or more wells, steps 4 through 11 will be repeated.



13. A break test will only be conducted if the intermediate section can be drilled and cased within 21 days of the last full BOPE test.

Barriers

Before Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff

After Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff
- Offline cementing tool and/or cement head
- · Capping flange after cementing

Summary

A variance is requested to only test broken pressure seals on the BOPE when moving between wells on a multi-well pad if the following conditions are met:

- A full BOPE test is conducted on the first well on the pad. API Standard 53 requires testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater.
- If the first well on the pad is not the well with the deepest intermediate section, a full BOPE test will also be performed when moving to a deeper well.
- The hole section being drilled has a MASP under 5000 psi.
- If a well control event occurs, Mewbourne will contact BLM for permission to continue break testing.
- If significant (>50%) losses occur, full BOPE testing will be required going forward.
- Full BOPE test will be required prior to drilling the production hole.

While walking the rig, the BOP stack will be secured via hydraulic winch or hydraulic carrier. A full BOPE test will be performed at least every 21 days.



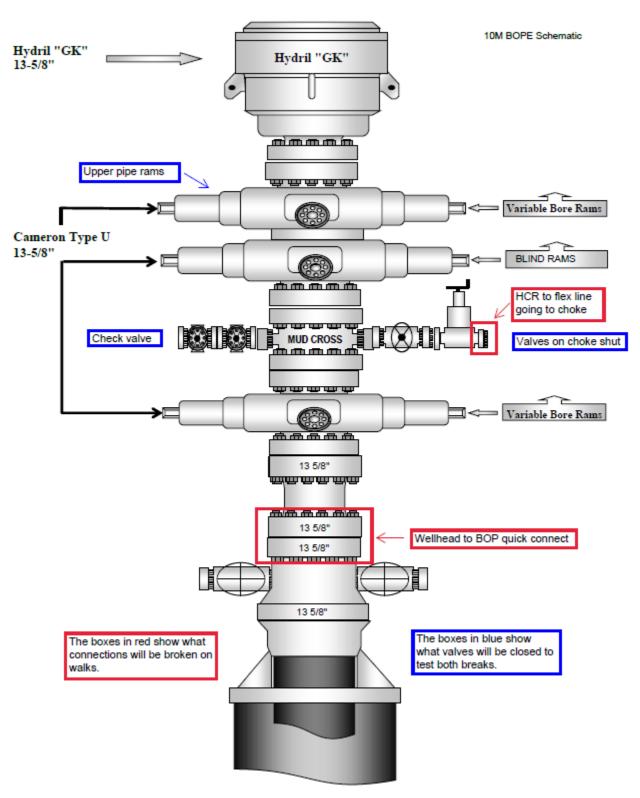


Figure 1. BOP diagram



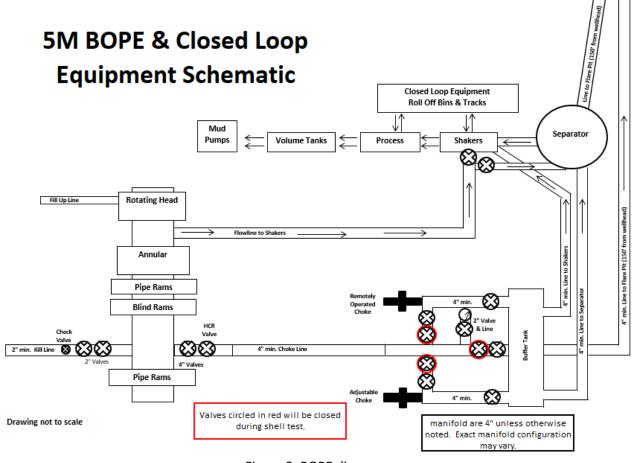


Figure 2. BOPE diagram





Figure 3. BOP handling system





Figure 4. BOP handling system



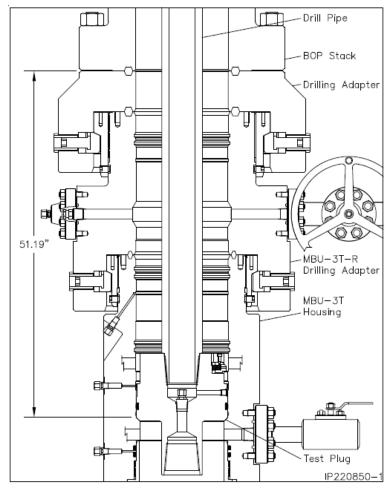


Figure 5. Cactus 5M wellhead with BOP quick connect

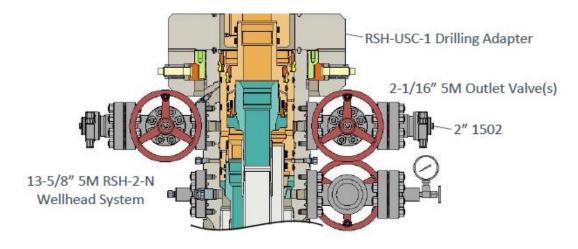


Figure 6. Vault 5M wellhead with BOP quick connect

Mewbourne Oil Company, Caper 20/29 Fed Com #562H Sec 17, T21S, R32E

SHL: 1645' FSL 1330' FWL (Sec 17) BHL: 100' FSL 750' FWL (Sec 29)

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Caper 20/29 Fed Com	#562H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	17	21S	32E	-	473'	FSL	750'	FWL	Lea
		Latitude				NAD			
32.4727115	5				-103.70300)56			83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	20	21S	32E	-	100'	FNL	750'	FWL	Lea
Latitude					Longitude				NAD
32.4711369				-032.4711369				83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	29	21S	32E	-	100'	FSL	750'	FWL	Lea
Latitude Longitude					NAD				
32.4426469				-103.7029817				83	

Is this well the defining well for the F Is this well an infill well?	Iorizontal Spacing Unit?	N		
If infill is yes please provide API if av Spacing Unit.	ailable, Operator Name and	well number for De	fining well for Horizo	ntal
API#				

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Caper 20/29 Fed Com	722H

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 348954

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	348954
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	MUST COMPLY WITH REQUIREMENTS OF R-111-Q	7/5/2024